246 Can Sofred . Ward 9 " 1827 CAn 10. 2. 16. Inaugural Difsertation Cholerce Infantum Allen Knight Pennsylvanie

Poper lord 9 1827





Cholera Infantum

The rules of this University requiring candidates for the degree of Loctor of Medicine to prepare an espay on some medical subject, I have selected for that purpose the disease called bholud Infantum or summer epiclemic of children. The extensive prevalence of this disease and the great mortality occasioned by it, give it a strong claim to the consideration of the Mujsician. As an epidemie it is peculiar to the warm season of the year, and its prevalence is principally confined to the warm and impure atmosphere of large cities. On this bity, it is said, that since the introduction of the Schuylkiel water through the streets, and the improvement of the prolice

Capacione. To an existence of as further

and justed, then it previously hast been yet it appears from the bills of mentality, that his number of weaths from this disease, average much than two hundred per annum, a dequi of mintality exceeding that from any other disease in proportion to the pair out of its deceation.

This epidemic makes its appearance in this lity in Jeen, is at its height in July, continuing to a lefs eftent through August, and is meaty extinct by the middle of Aptember, making the precious of its duration, little more than one fourth of the year.

It is always aggravated by an incum of temperature, also by season changes in the atmosphere from heat to cold, of mistable receiving that from any the bearing of its duration with some and from dryres to humidity. Children from early enquiry until they are three, or four years old, are liable to be effected by this discuss; but those at the freshood of deutition, or from the fifth to the twentieth menth are much particularly subject to its attach.

Bh summer opidemic of children appears in several different forms, and is attended with a discussify of symptoms. They may however all be received to some of the following heads.

1th Bilious Diarkoua
2th Acute Cholma
3th Viscoul Inflammation
4th Chronic Bowel Complaint
tack stage is marker by its

3th Bournel Getlemmention

puelica symptoms.

Whis is the mildest form of the aliseous, and consult in an investor we frequency of shorts, the discharges being generally of a between any rafe as off in a few days without much general indeposition.

In other cases it is attended with felicile symptoms, the tongen is funct, the shin day, and the appearance title impaired. When the fever runs high, the stroots become more vitian appearance. Othe discuss their begins to aforeme the character of some of the other forms, the ment common of which is, the Scatt bholese.



At is this form of the disease that gives the title to the epidemic. It con sists in a violent bouniting and fring ing. Bu some cases it comes on sudden by without any previous indisposition; and en others, it is preceded by the dian bord form of the disease. When milk or other aliment has been received into the stornacto, it is first rejective in a some and. coaquelectiel stale; some bilious hunt. tu is vecesionally therouse off but for the most part nothing but mucus or sline, and the vitiative secre twinsfrom the stomach are the own up. Office stools also present an allen. apprenance. Partially digested found Alime or success is discharged; some times they are green, or yellow, and



very fetice. Muces is very frequently discharged mixed with blood; and at other times a colouless fluid is exacusted The quantity is also various; in some the secretion from the birels is copieces, and in other small in quantity. During the period of bemiting and purging, there is great prostruction of strength, the pulse is small and events, the exterior ities our coler, while the pulsations of the asteries of the head (the tempo red and conoled) one full and strong the head, breast and ofigustion are warmer them wateral. When the rometing is violent, the eyes become suffused, deliciem, she hor, or convelsions, occusionally



vecer. The victimes of the disease frequently brings on spasm of the abetominal muscles, and lower 14-

This form of the disease runs its course in a short time.

On some cases it terminates in conrulvions and death, in twenty four hours. In others it is succeeded by a gunal febrile state of the system, that continues a few days becoming gradually milder and them entirely subsiding. But it frequently tumi nates in the third stuge of the disease, Historial Inflummation. This stage of the disease is altends ed with a swelling of the abelomen,

extreme someref of the epiquotium, restlepnels, violent crying, and a



general expression of extreme pain. The pulse is active, the skin hol, and the longue dry, with constant thirst The discharges from the bourds are human or sline, sometimes bloody and frothy, at other times a week green coloured matter is discharged. Severe grifing pains, wakefulueforde livium, unch a countenance experision of the greatest auguish is often exhibited by the little sufferer. This state of wente inflammation does not continue long. Hor if reso lution is not effected by the remedies employees, it soon luminutes in stance. tural decongement of the bissue, or is succeeded by chronic inflammation of the stomuch and bowels, which constitutes the fourth stage, of the disease

Chronic Bowel Complaint In this stage of the disease There are frequent stools, sometimes as often as every hour in the clay; and the discuse resisting every effort that can be made is often protructed to Dix, or even eight weeks duration. The stools exhibit all the burious appearances that have been mention ed in the other forms of the disease. On execution to which, there is in some cases discharges that resemble the feter of rotten eggs; in other cases a down pritchey looking matter is evacuated.

Who extermities are generally color, the tongue, is day and contine, or day smooth and pulished. To the disease languepes the general



strength becomes more prostrutiel and extreme enuciation lather places The eyes are dull and sunkin, the nose shoup, the lips shriveled, the Min of the fere head lause, and the Hipporatic countenance strongly marked. The stien is either evol, day and hursh, or bedowed with a visuid moisture, and the fleshy parts of the body are loose and shrindled. Al this advanced state of the diseuse, the gums are covered with sorders, the mouth is affected with explithen. executions about the anus, and an acternations swelling of the extremition These symptoms are generally follower by a falal luminalive. which arises either from effection on the brain, or from Structural durings.



ment of some of the abdominul viscous

Causes

The principal agent in the production of this epiclimic is atmospherical heat. That this is the cause is demonstrated by the fact, that the discuss regularly matres its appearance upon the occur rence of very high temperature, and always subsides when the atmosphere becomes evol. Their appears to be a liffer mee of opinion unought mederal min en respect to the mounes in which haut acts in the production of this discase. A sucrube of respectable authoretees consider it as acting inchiesely by the agency of miamuatte, and that cholen is a modification of believes four or The "felies introverse" of Sychenhoun



while other consider it as acting duly by its insurdiate Minutating ifful in the system.

The following tremenstances appear to favour the state, and stand offered to the stand of these oficions.

I'm The stance makes its appearance may in the season, before these stances that are anthumelinged to be caused, by mine tools.

2nd Miasmatic dires on generally most prevalent in the menty, wantly the frequent in the rity intile directly the reverse is the one with cholen.

Then we sweet secondary or videw litims causes that there to excite the diense.

1st Deutition in the worst important. The townering to fatrite excitement that



of ists sturing this brained of infrancy our des the system some linder to discuse. There is that a large proportion of the children in the city that an cutting both during the summer promets, one very the forms of this discuss of this discuss of this discuss.

1th Strict. It is a very wheren ofice in Hint the summer discuss is course by the early fruit eather to except, in in our unife state.

Chat this sing verasionally exist the disease into wition cannot assent of a doubt.

Then when we convised that the children must subject to this dissum an them, who afrom their betters that a land to face the tent chance to have accept to find, we went atteited but a very



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limitive agency to this cause.

32 Aspelled Eruptions.

One of the first lambed effects of a high lauperature of the atmosphere is the from the free of the atmosphere is the from the highest approximation of any manner of any manner.

I am informed by a physician who has funticedad director his observed that a long, fraction of the course of choles that have come under his twitee have been previously affective with this discuss of the skin, which have client previous of the bowl of settlem. It would however probably to some correct to consider both there



expection as arising from a common come than to acceive the night of the strains.

The causes of this spice

director to the elystopoethe vision; the line, stomach wind bowels are the parts

principally affected.

Who standarding opport of heatender Most servicion of the liver, but when it oftens to a higher degree, recontinues a long a time indirect debility, as a temper of the liver, and a deficiency a defender of the liver, and bourts are used offered directly by the stimules of the remote and specific of the clisars, course in directly from the went



of a healthy bilious sensitive where of the fewer of seizetion and a four station because inferrical.

Dreatment

1st Bilions Dianhous.

Whis being in many cases a discusin which the sponlaneous effects of
nature to relieve the system would
be efficient; very little medical handouse
is required. It mide layative of may
nein, or synch of chubant followers
by a guite lover is often sufficient;
but when it is attended with thest,
a funce tongue, impaired appetite,
and other wisture of febrite excitement, an emitter of executanha
Should be presented. When the discharge from the bowels indicate



sither a deficiency or a depressed that of the administracy decretion a full done of calonel will be useful.

whilm the shin is then, and hush the warm, with and combinations of openine with openination, as his bited so as to excite a dia phusis, will very much will the sun

Emilies, from their effects in some ing any initiating souther from their stimularly their stimularly their trucking to retire congression in this feature system, appears to be presenting another to this stage of the discusse. Brofelow Chalendan in his lectures,

Profesor Chulenian in his lectures, ofwho favourally of them, and states that "when their is so record to bus heart influmention of the Stowach



and specially unproject.

Ohose physicians who have excel emitin in this cliseur. hur groundly prefered incomments, so being Miller aux left liable to excite instation in

the Stomach.

I late write in most hositive tem, gives attended bufunce to tentore enter, which he exhibited in doors of half four, to an input. Not having any experience in this bole proster I am not preferred to offer an opinion of its post priety.

Anti- exection, Although the exhibition of our wester will often surfuncacle the surefity of any other summer to allay the sometime, yet it flow



happens that from the exhauster state of the patient, or the prefence of enflammation that seneties are inacemifoible. When their is the care recourse must be freed to succus cul. culative to south the initability of the stomuch; for this purpose line wester and wilk, the alkaline and efervescing mixture are recommended, strong coffee, an infersion of beaut vatural and external applications of various kinds, famentations cuterplasms of wint or acomutics, sincepisous, blisters, the warm bath and amodigue enjections, are amongst the mens used to fulfil this indication. When the system is much exhemoted active stimulants are required, as brandy today, or spiced brandy &.



Purgent The the tomiting los consect and the system tens reactive sufficiently to admit of fungatives, they become the next important part of the treatment.

Physicians generally appear to be agreed, their for this purpose calound is the most efficient auticle, the freezeity with which it may be given to children, and its precedion effects on the biliary sys Tam renders it preferable to any other purgative medicine en this discusse.

Dia phoneties. After sufficient occesiation of the howel by pringative Medicine, small dops of finne, com beined with automony, or epecacemika, and small doses of culosast house

very suluting effect.

Viscoral Intlammation On the third form of the disease or when resceral enflammation exists blood letting becomes recepany. General blood- letting by venisection, in local bleeding by cups, or luches. to the epigastima, should be used prompelly: in many cases it becomes necessary to repeat the operation: Fu eletermining the professity of this Measure, the Julse must not be our only quide, the apparent violence of The hum & degree of trudenuls winese upon prefour will afform the best

Pergateves are very important in this form of the disease, entouned in division doses follower by costs oily or a solution of epsour salts,



should be repeted entil a free operation is effected. - Cold adeplications to the eliquotium and other abstrained regions un very esseful, when there is preternature heat, and drywel, of the skin of thouse heests, they reduce the runbice lowperature, and lepen inflormations Enemate of cold weiter are probably Conspicion. Emolient and topic applications are proper, when there is no marked increase of temperature, for this perfure a bladder containing topice water applied our the abstrace - has a tendency to aclay the cutanever refsels and levoluces soothing effects on the diseuse. " ween or topical bath is culeur latest to answer the same unful



furpose. Plisters are amongst the sure of substituing local influmenation which are often applicable in this from file stinuse.

Muciloginous diente as a solution of germ arabic, or one infusion of flag-seed are proper. Biapharetic Medicine, may often be actualistical with advantage, after bleeding and purging have reduced the force of the inflammation.

When the englacer Mention is subsequent the subsequent state of debelity calls for support by appropriate tonic survicious and sustitions diet:

Chronic Bowel Complaint On this form of the disease the indications are It to restain



the exception and distillating dishary

was to alter and equalize the year eral action of the system.

3rd To suffert the tone of the sys tow. For answering the first in dicretion a great versity of astringents have been used, the preparations of chalk, himo, blackbury and dowbury root, logewood the galls, alum, oficin and sugar of least, such of these respective enticles has been found useful in this form of the disease. The some cures from the protructed Mulun of the disease, it becomes necessary to use seemed of them in succession before they have the desired effect. The second indication



or changing the action of the system, is an essential fruit of the treatment. While the enturnal repels remain in a state of congestion, and there of the surpre in a state of collapse or deficient excilement, it will be in verice to extrempt to check the cliseuse by ciotingents. The most efficient means to fulfil this indicention is colomel in bery Small closes in the municin recome mended, by Dr. Miller of New york. and more recently by mores of England. The happy result of this functive is in many instances truly noton ishing. The name bathe and freeting to the skin well be found useful any elicary meens. Thoule not the nitro- unriation



aciel bath of chott, he weefed in this state of the dinners be phapman in his release on chance adjusting suggests the proprie etg of this remety, were it would sum equally adopted to the chance bowel complaint.

The third indirection namely supposed for the system required be covered treatment for the system required for covered freezes, columbo, the preparations of back, and presticularly the sulfar generica, and seems, also suitable entireless of sciet, and extremed stimulants time bath, beach jacket you all adaptive to this purpose.

The prophylactic treatment consist in country our, fee bestilation cold bath, absuling to cetting of

very levely of thete he noted in principal level seine was di 14 Ble wite us to this bustoms.

the gums, when the state of deutition May require it, to avoid repelling cuta-Never exceptions, attention to dist, breast with, with and nater severtunes with white sugar, arrow wot, givened rice and other furinaceous substances; Accessionally salt ment, or fish, and when the eligestice organs are weak arometics should be used. The deep shweeled be accommodated to the bicifsitudes of the weather, the feet to be generaled, and flowed every on the abdonus. The end.

the grown when the state of the wine